

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A liquid crystal display, comprising:

a liquid crystal display panel formed of liquid crystals sandwiched between a pair of opposing substrates, and including pixels having a plurality of sub-pixels each corresponding to different colors, the sub-pixels having outer edges;

an illumination device provided to an opposite side of the liquid crystal display panel in relation to an observation side that illuminates the liquid crystal display panel with illumination light;

a transfective layer disposed on the opposite side of the liquid crystals in relation to the observation side, the transfective layer including for each sub-pixel a reflective portion and with a transmissive portion that transmits the illumination light formed thereto, each reflective portion having an outer edge disposed at at least one of the outer edges of the corresponding sub-pixel, the transmissive portion having a first dimension at least at one sub-pixel out of the plurality of sub-pixels having a transmissive area with a first dimension, and the transmissive portion having a second dimension at another sub-pixel, the first and the second dimensions differing according to spectral properties of the illumination light out of the plurality of sub-pixels having a transmissive area with a second dimension; and

a color filter provided corresponding to each of the sub-pixels that transmits light of a wavelength corresponding to a color of each sub-pixel.
2. (Canceled)
3. (Currently Amended) The liquid crystal display according to claim 1, claim 2, the dimension of the transmissive area at each sub-pixel being a dimension differing

according to the luminance of a wavelength of the illumination light corresponding to a color of the sub-pixel.

4. (Previously Presented) The liquid crystal display according to Claim 3, the dimension of the transmissive area at a sub-pixel of a color corresponding to a wavelength of the illumination light with great luminance being smaller than the dimension of the transmissive area at a sub-pixel of a color corresponding to a wavelength of the illumination light with small luminance.

5. (Previously Presented) The liquid crystal display according to of Claim 1, the dimension of the transmissive area at each of the sub-pixels differs for each sub-pixel corresponding to a different color.

6. (Previously Presented) The liquid crystal display according to Claim 1, the dimension of the transmissive area at each of the sub-pixels differing according to a position of the sub-pixel within a substrate face of the liquid crystal display panel.

7. (Previously Presented) The liquid crystal display according to Claim 1, the transmissive portion being an opening portion formed in the transfective layer corresponding to each of the sub-pixels.

8. (Currently Amended) ~~The liquid crystal display according to claim 7, A liquid crystal display, comprising:~~

a liquid crystal display panel formed of liquid crystals sandwiched between a pair of opposing substrates, and including pixels having a plurality of sub-pixels each corresponding to different colors, the sub-pixels having outer edges;

an illumination device provided to an opposite side of the liquid crystal display panel in relation to an observation side that illuminates the liquid crystal display panel with illumination light;

a transflective layer disposed on the opposite side of the liquid crystals in relation to the observation side, the transflective layer including for each sub-pixel a reflective portion and a transmissive portion that transmits the illumination light formed thereto, each reflective portion having an outer edge disposed at at least one of the outer edges of the corresponding sub-pixel, at least one sub-pixel out of the plurality of sub-pixels having a transmissive area with a first dimension, and another sub-pixel out of the plurality of sub-pixels having a transmissive area with a second dimension; and

a color filter provided corresponding to each of the sub-pixels that transmits light of a wavelength corresponding to a color of each sub-pixel;

the transmissive portion being an opening portion formed in the transflective layer corresponding to each of the sub-pixels, the opening portion comprising opening parts of generally the same dimension, wherein a number of opening parts depends on the dimension of the transmissive area at the sub-pixels.

9. (Withdrawn) The liquid crystal display according to claim 1, the transflective layer having the transmissive portion formed such that an area along at least one side of a plurality of sides defining each sub-pixel serves as the transmissive area.

10. (Currently Amended) A liquid crystal display, serving as a transflective liquid crystal display which performs displaying by switching between a transmissive mode and a reflective mode, comprising:

a liquid crystal layer sandwiched between an upper substrate and a lower substrate opposing one another;

a transflective layer which has a transmissive area that transmits light and a reflective area that reflects incident light from an upper substrate side, and which is disposed on an inner side of the lower substrate;

a color filter disposed on an upper side of the transfective layer, upon which a plurality of pigment layers with different colors according to each of sub-pixels forming a display area are arrayed; and

an illumination device providing illumination light and disposed on an outer side of the lower substrate,

the pigment layers being formed over an entirety of an area overlapping the transmissive area in a planar manner and an area overlapping the reflective area in a planar manner, and at least one color pigment layer not being formed at a part of an area overlapping the reflective area in a planar manner,

and a dimension of a pigment layer formation area, where the pigment layers are formed, the dimension being different between at least one color pigment layer out of the plurality of pigment layers of differing colors and another color pigment layer, ~~the dimensions of the pigment layer formation areas differing according to spectral properties of the illumination light~~

each sub-pixel having outer edges, the transfective layer including a reflective area for each sub-pixel, each reflective area having an edge disposed at at least one of the edges of the corresponding sub-pixel.

11. (Withdrawn) The liquid crystal display according to Claim 10, the pigment layers comprising a red layer, a green layer, and a blue layer, and the dimension of the pigment layer formation area being formed so as to be smaller for the green layer than for the red layer and blue layer.

12. (Withdrawn) The liquid crystal display according to Claim 10, further comprising a transparent film for smoothing a step between the pigment layer formation area and the area where the pigment layers are not provided.

13. (Withdrawn-Currently Amended) The liquid crystal display according to Claim 10, the transmissive area ~~being~~is formed by of window-like openings in the transfective layer~~being opened in a window-like manner.~~

14. (Withdrawn) The liquid crystal display according to Claim 10, band-shaped transparent electrodes being disposed on the inner side of the lower substrate, and the transmissive area of a band shape being formed in the transfective layer by having a transparent electrode pattern width that is formed wider than a transfective layer pattern width.

15. (Withdrawn) The liquid crystal display according to Claim 11, the transfective layer being formed of at least one of aluminum and an aluminum alloy, and the pigment layer containing the blue layer, and the dimension of the pigment layer formation area being provided so as to be smaller for the blue layer than for the red layer.

16. (Withdrawn) The liquid crystal display according to Claim 11, the transfective layer being formed of at least one of silver and a silver alloy, and the pigment layer containing the red layer and the blue layer, and the dimension of the pigment layer formation area being provided so as to be smaller for the red layer than for the blue layer.

17. (Withdrawn) The liquid crystal display according to Claim 10, the color properties of the color filter being adjusted by changing the dimension of the pigment layer formation area.

18. (Currently Amended) A liquid crystal display, serving as a transfective liquid crystal display which performs displaying by switching between a transmissive mode and a reflective mode, comprising:

a liquid crystal display panel formed of a liquid crystal layer sandwiched between an upper substrate and lower substrate opposing each other, and including pixels that

have a plurality of sub-pixels each corresponding to different colors and form a display area;
and

an illumination device provided to an opposite side of the liquid crystal display panel in relation to an observation side that illuminates the liquid crystal display panel with illumination light;

a transfective layer disposed on an opposite side of the liquid crystal layer in relation to the observation side; and

a color filter provided above the transfective layer with a plurality of pigment layers of different colors corresponding to each of the sub-pixels arrayed thereupon, that transmits light of a wavelength corresponding to a color of the sub-pixel,

a transmissive portion that transmits the illumination light ~~being formed on~~by the transfective layer ~~that includes,~~ the transfective layer including a transmissive area that transmits light and a reflective area that reflects incident light from an upper substrate side,

and ~~the a~~ transmissive portion ~~having a first dimension of at least at one sub-pixel of the plurality of sub-pixels~~ having a first dimension and ~~the a~~ transmissive portion ~~having a second dimension at another sub-pixel~~ having a second dimension, the first and the second dimensions differing ~~according to~~ provide compensation for irregularities of spectral properties of the illumination light,

and at least one color pigment layer is formed over an entirety of an area overlapping the transmissive area in a planar manner and an area overlapping the reflective area in a planar manner, and at least one color pigment layer not being formed at a part of an area overlapping the reflective area in a planar manner,

and a dimension of a pigment layer non-formation area where the pigment layer is not formed at least at one sub-pixel of the plurality of sub-pixels and the dimension of a pigment layer non-formation area at another sub-pixel, differ.

19. (Previously Presented) An electronic apparatus, comprising the liquid crystal display according to Claim 1.

20. (Previously Presented) An electronic apparatus, comprising the liquid crystal display according to claim 10.

21. (New) The liquid crystal display according to claim 1, the first and second dimensions providing compensation for irregularities of spectral properties of the illumination light by being different.

22. (New) The liquid crystal display according to claim 10, the dimension of at least one color pigment layer and another color pigment layer providing compensation for irregularities of spectral properties of the illumination light by being different.

23. (New) A liquid crystal display, comprising:

- a first substrate;
- a second substrate opposing the first substrate;
- a liquid crystal layer sandwiched between first and second substrates;
- a first color filter layer having outer edges that define a first sub-pixel, the first color filter layer transmitting light in a first color;
- a second color filter layer having outer edges that define a second sub-pixel, the second color filter layer transmitting light in a second color different from the first color;
- an illumination device provided to an opposite side of the second substrate than the liquid crystal layer; and
- a transfective layer including:
 - a first reflecting area that reflects light incident from the first substrate, the first reflecting area including an outer edge substantially aligned with at least one of the outer edges of the first color filter;

a second reflecting area that reflects light incident from the first substrate, the second reflecting area including an outer edge substantially aligned with at least one of the outer edges of the second color filter;

a first transmissive area located at the first sub-pixel, the first transmissive area transmitting light therethrough; and

a second transmissive area located at the second sub-pixel, the second transmissive area transmitting light therethrough and being a different size than the first transmissive area.

24. (New) The liquid crystal display as claimed in claim 23, wherein:

the first transmissive area includes two apertures;

the second transmissive area includes two apertures,

the first color filter layer includes a non-formation area disposed, as viewed in plan, between the two apertures of the first transmissive area, and

the second color filter layer includes a non-formation area disposed, as viewed in plan, between the two apertures of the second transmissive area.

25. (New) The liquid crystal display as claimed in claim 23, wherein:

the first and second color filter layers are disposed in between the liquid crystal layer and the second substrate and

the transflective layer is disposed in between the first and second color filter layers on one side and the second substrate on the other.

26. (New) A liquid crystal display, comprising:

a first substrate;

a second substrate opposing the first substrate;

a liquid crystal layer sandwiched between first and second substrates;

a first color filter layer having outer edges that define a first sub-pixel, the first color filter layer including:

a first color portion that selectively transmits light in a first color and

a first transmission portion that transmits light in the first color and in colors other than the first color;

a second color filter layer having outer edges that define a second sub-pixel, the second color filter layer including:

a second color portion that transmits light in a second color different from the first color and

a second transmission portion that transmits light in the second color and in colors other than the second color, the second transmission portion being a different size than the first transmission portion;

an illumination device provided to an opposite side of the second substrate than the liquid crystal layer; and

a transfective layer including:

a first reflecting area that reflects light incident from the first substrate, the first reflecting area overlapping the first color filter layer as viewed in plan, the first reflecting area including an outer edge substantially aligned with at least one of the outer edges of the first color filter;

a second reflecting area that reflects light incident from the first substrate, the second reflecting area overlapping the second color filter layer as viewed in plan, the second reflecting area including an outer edge substantially aligned with at least one of the outer edges of the second color filter;

a first transmissive area that transmits light therethrough, the first transmissive area being located at the first sub-pixel in overlap with the first color portion of the first color layer as viewed in plan; and

a second transmissive area that transmits light therethrough, the second transmissive area being located at the second sub-pixel in overlap with the second color portion of the second color layer.

27. (New) The liquid crystal display as claimed in claim 26, wherein:

the first transmissive area includes two apertures,

the second transmissive area includes two apertures,

the first transmission portion of the first color filter layer is disposed, as viewed in plan, between the two apertures of the first transmissive area, and

the second transmission portion of the color filter layer is disposed, as viewed in plan, between the two apertures of the second transmissive area.

28. (New) The liquid crystal display as claimed in claim 26, wherein:

the first and second color filter layers are disposed in between the liquid crystal layer and the second substrate and

the transfective layer is disposed in between the first and second color filter layers on one side and the second substrate on the other.

29. (New) A liquid crystal display, comprising:

a first substrate;

a second substrate opposing the first substrate;

a liquid crystal layer sandwiched between first and second substrates;

a first color filter layer having outer edges that define a first sub-pixel, the first color filter layer including:

a first color portion that selectively transmits light in a first color and

a first transmission portion that transmits light in the first color and in colors other than the first color;

a second color filter layer having outer edges that define a second sub-pixel, the second color filter layer including:

a second color portion that transmits light in a second color different from the first color and

a second transmission portion that transmits light in the second color and in colors other than the second color, the second transmission portion being a different size than the first transmission portion;

an illumination device provided to an opposite side of the second substrate than the liquid crystal layer; and

a transfective layer including:

a first reflecting area that reflects light incident from the first substrate, the first reflecting area overlapping the first color filter layer as viewed in plan, the first reflecting area including an outer edge substantially aligned with at least one of the outer edges of the first color filter;

a second reflecting area that reflects light incident from the first substrate, the second reflecting area overlapping the second color filter layer as viewed in plan, the second reflecting area including an outer edge substantially aligned with at least one of the outer edges of the second color filter;

a first transmissive area that transmits light therethrough, the first transmissive area being located at the first sub-pixel in overlap with the first color portion of the first color layer as viewed in plan; and

a second transmissive area that transmits light therethrough, the second transmissive area being located at the second sub-pixel in overlap with the second color

portion of the second color layer, the second transmissive area being a different size than the first transmissive area.

30. (New) The liquid crystal display as claimed in claim 29, wherein:
the first transmissive area includes two apertures,
the second transmissive area includes two apertures,
the first transmission portion of the first color filter layer is disposed, as viewed in plan, between the two apertures of the first transmissive area, and
the second transmission portion of the color filter layer is disposed, as viewed in plan, between the two apertures of the second transmissive area.

31. (New) The liquid crystal display as claimed in claim 29, wherein:
the first and second color filter layers are disposed in between the liquid crystal layer and the second substrate and
the transflective layer is disposed in between the first and second color filter layers on one side and the second substrate on the other.

Amendments to the Drawings:

The attached replacement drawing sheets makes changes to Figs. 3 and 9 and replace the original sheets with Figs. 3 and 9.

Attachments: Figs. 3 and 9 Replacement Sheets